AMENDMENTS TO THE CLAIMS

1-3. (Cancelled)

- 4. (Previously Presented) A method for screening for compounds that promote binding of estrogen related receptor ligand 1 (ERRL1) to estrogen related receptor (ERR), which method comprises:
 - (1) contacting cultured cells with a candidate compound, wherein said cultured cells express ERRL1 and ERR;
- (2) measuring the binding of ERRL1 to ERR in the presence of the candidate compound and in a control sample in the absence of said candidate compound;
- (3) identifying the candidate compound promoting binding of ERRL1 to ERR as compared to said control sample.
- 5. (Previously Presented) The method of claim 4, wherein the cultured cells are obtained from an established human or non-human cell line; from tissue of a human or non-human animal body and appropriately maintained in a culture condition.
- 6. (Previously Presented) The method of claim 5, wherein the cultured cells are obtained from cells selected from the group consisting of: (1) adipocyte cells, (2) yeast cells; (3) bacterial cells; (4) cells transfected with ERRL1 cDNA and/or ERR cDNA; and (5) isolated animal cells, such as BAT, heart, skeletal muscle, or kidney, in which ERRL1 protein is highly expressed.
- 7. (Currently Amended) A method for screening for compounds that increase the activity of estrogen related receptor (ERR) for expressing a medium-chain acyl CoA dehydrogenase (MCAD) gene, which method comprises:
- (1) contacting <u>a test sample of cultured cells</u> with a candidate compound, wherein said cultured cells express ERR;
- (2) contacting a control sample of said cultured cells with estrogen related receptor ligand 1 (ERRL1) and without the candidate compound;

Serial No. 10/523,982 Attorney Docket No. 2005_0199A November 10, 2008

- (2)(3) measuring the activity of ERR for expressing the MCAD gene in the presence of the candidate compoundtest sample and in the control sample; and
- (3)(4) identifying wherein the candidate compound increasing the activity for expressing the MCAD gene to the level the same as to the same level as or a higher level than the control sample is a compound that increases the activity of estrogen related receptor (ERR) for expressing a medium-chain acyl CoA dehydrogenase (MCAD) geneaction of ERRL1 to ERR.
- 8. (Previously Presented) The method of claim 7, wherein the cultured cells are obtained from an established human or non-human cell line; from tissue of a human or non-human animal body and appropriately maintained in a culture condition.
- 9. (Previously Presented) The method of claim 8, wherein the cultured cells are obtained from cells selected from the group consisting of: (1) adipocyte cells, (2) yeast cells; (3) bacterial cells; (4) cells transfected with ERRL1 cDNA and/or ERR cDNA; and (5) isolated animal cells, such as BAT, heart, skeletal muscle, or kidney, in which ERRL1 protein is highly expressed.